Application No.: 10/806,452

Atty Docket No.: Q76445

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1. (currently amended): An ink containing a-water, a water-soluble organic solvent, a dye, a non-ionic surfactant and a betaine compound, wherein the dye has at least two heterocyclic groups and at least one of the heterocyclic groups contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings.

Claim 2. (canceled).

Claim 3. (currently amended): The ink according to claim 12, wherein the betaine compound is a compound represented by the following formula (1):

$$(R^k)_p-N-[L^m-(COOM)_q]_r$$
 (1)

wherein R represents a hydrogen atom, an alkyl group, an aryl group or a heterocyclic group; L represents a divalent linking group; M represents a hydrogen atom, an alkali metal atom, an ammonium group, a protonated organic amine- or nitrogen-containing heterocyclic group or a quaternary ammonium ion group, provided that when p+r is 4, one of M's is not present; q is an integer of 1 or more, r is an integer of from 1 to 4, k is an integer of from 0 to 4, m is an integer of 1 or more, and p is an integer of from 0 to 4, provided that p+r is 3 or 4; in a case where p+r is 4, the N atom is a protonated ammonium atom; in a case where m is 2 or more, L's may be either the same or different; in a case where q is 2 or more, COOM's may be either the same or

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different; in a case where r is 2 or more, L^m -(COOM)_q's may be either the same or different; in a case where k is 2 or more, R's may be either the same or different; and in a case where p is 2 or more, R^k 's may be either the same or different.

Claim 4. (currently amended): The ink according to claim 12, wherein the nonionic surfactant is a compound selected from compounds represented by the following formulae (2) to (4):

$$R_{21}O - (CH_2CH_2O)_{m1} - H$$
 (2)

wherein R₂₁ represents an alkyl group having from 5 to 40 carbon atoms; and m¹ represents an average number of ethylene oxide moles added which ranges from 2 to 40;

$$R_{22}COO - (CH_2CH_2O)_{m^2} + (3)$$

wherein R₂₂ represents an alkyl group having from 5 to 40 carbon atoms; and m² represents an average number of ethylene oxide moles added which ranges from 2 to 40; and

$$\begin{array}{c}
R_{32} \\
R_{31} - C - C \equiv C - X \\
\downarrow \\
O - \left(CH_{2}CH_{2}O\right)_{m^{3}} R_{33}
\end{array} (4)$$

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wherein R₃₁ and R₃₂ each independently represent an alkyl group having from 1 to 18 carbon atoms; R₃₃ represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group; and X represents a hydrogen atom or

$$\begin{array}{c}
R_{34} \\
-C - R_{35} \\
0 - (CH_2CH_2O)_{m4} - R_{36}
\end{array}$$

wherein R₃₄ and R₃₅ each independently represent an alkyl group having from 1 to 18 carbon atoms; R₃₆ represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group; and m³ and m⁴ each independently represent an average number of ethylene oxide moles added provided that m³+m⁴ is from 0 to 100;

in a case where m³ is 0, R₃₃ represents a hydrogen atom; in a case where m⁴ is 0, R₃₆ represents a hydrogen atom; and in a case where X is a hydrogen atom, m³ is from 1 to 100.

Claim 5. (original): The ink according to claim 1, wherein the betaine compound is a compound which has both of a cationic site and an anionic site in its molecule.

Claim 6. (currently amended): The ink according to claim 1, wherein the betaines has a cationic site is selected from the groupgroup consisting of an amine formaminic nitrogen atom, a nitrogen atom in an aromatic heterocycle, a boron atom having 4 carbon-bonds, and a phosphorus atom[[,]] and thean anionic site is selected from the group consisting of a hydroxyl group, a thio group, a sulfonamido group, a sulfo group, a carboxyl group, an imido group, a phosphate group, and a phosphonate group.

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Claim 7. (original): The ink according to claim 1, wherein the dye has an oxidation potential nobler than 1.0 V (vs. SCE).

Claim 8. (canceled).

Claims 9 and 10. (canceled).

Claim 11. (original): The ink according to claim 1, wherein the dye is a phthalocyanine dye containing at least one of -SO-, -SO₂-, -CO- and -CO₂-.

Claim 12. (currently amended): An ink set containing at least one of the ink according to claim 1elaims 2.

Claim 13. (currently amended): An inkjet recording method wherein an image is recorded with an inkjet printer by using at least one of (a) an ink containing water, a water-soluble organic solvent, a dye, a betaine compound and a nonionic surfactant the ink according to claim 2 and (b) an the ink set containing at least one ink containing water, a water-soluble organic solvent, a dye, a betaine compound and a nonionic surfactant, wherein the dye in (a) and (b) has at least two heterocyclic groups and at least one of the heterocyclic groups contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings according to claim 12.

Claim 14. (currently amended): The ink according to <u>claimeliam</u> 1, <u>wherein the ink</u> contains at least two different betaine compounds further containing at least one another betaine compound.

Claim 15. (currently amended): An ink set containing at least one of the ink according to claimelaims 14.

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Claim 16. (currently amended): (currently amended): An inkjet recording method

wherein an image is recorded with an inkjet printer by using at least one of (a) an ink containing

water, a water-soluble organic solvent, a dye and at least two different betaine compounds the

ink according to claim 14 and (b) an the ink set containing at least one ink containing water, a

water-soluble organic solvent, a dye and at least two different betaine compounds, wherein the

dye in (a) and (b) has at least two heterocyclic groups and at least one of the heterocyclic groups

contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings

according to claim 15.

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